The Republic of the Union of Myanmar
Ministry of Construction
Public Works

Working Party on Road Traffic Safety

(Sixty-Seventh Session)

New Delhi, (4 - 6) December 2013

Mr. Ye Min Zaw
Deputy Superintending Engineer (Civil)
Yangon-Mandalay Expressway Project
Public Works, Ministry of Construction, Myanmar
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- Introduction
- Ministry of Construction, Public Works
- Yangon – Mandalay Expressway Project (Present Organization)
PARTICIPANTS FROM MYANMAR TO WORKING PARTY ON ROAD TRAFFIC SAFETY

(Sixty – Seventh Session)

December  4, 2013  ~  December 6, 2013

Invited by  U N E C E

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<th>Name</th>
<th>Position and Organization</th>
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<tr>
<td>Mr. Lian Cin Mang</td>
<td>Director, Road Transport Administration Department, Ministry of Rail Transportation</td>
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<tr>
<td>Mr. Ye Min Zaw</td>
<td>Deputy Superintending Engineer, Yangon-Mandalay Expressway Project, Public Works, Ministry of Construction</td>
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</tbody>
</table>
• First founded as Public Works Department in 1888, so more than a century of accumulated experiences and experts. Renamed as Public Works in 1965, with the combination of (22) Engineering Departments.

• Public Works, under the Ministry of Construction is responsible to plan, design, estimating, construct and maintenance of National Roads, Bridges, Government Buildings and Airfields in accordance with the guide line of the Ministry.

• In Myanmar, we began introducing private sector participations in the development of road infrastructures. Public Works gives guidelines, rules, regulations and procedures to such private organizations in implementing the infrastructure.

• Upholding our motto “Speed-Quality-Economy”, we are endeavoring to improve Myanmar construction technical ability by maintaining standards and quality controls.
Union Highway Network Master plan with 36 roads from north-south and 45 roads from east-west will cut-across 7 Regions & 7 States.

Priorities are given to the development of each and every region, increase contact and friendship, and build reconsolidation of national races.

Extend and upgrade to the existing roads mostly running north to south and construct new ones running from east to west all over the Union.
Myanmar: National Transport Networks

Total road length of 142,395 km was recorded in 2011.

- 4% is under the control of Yangon and Mandalay cities Development Committees,

- 63% is including most of the feeder roads are under the Ministry of Progress of Border Areas and National Races and Development Affairs.

- 26.5% is under the Ministry of Construction and are Union Highways with the length of about 37,784 km, of which 45.68% is bituminous paved road.

- 6.5% is under the Ministry of Electrical Power (1)/(2) and Army Corps of Engineer-Ministry of Defence.
My Present Organization
Yangon-Mandalay Expressway Project

- A divided highway of through traffic with full control of access and also with grade separations and underpasses at all intersections.

- To select the shortest alignment that runs through the base of Bago Yoma avoiding entering towns and villages.

- Implementation will be done stage by stage in construction phases depending upon the increase in traffic volume.
• Yangon – Mandalay Expressway is four lane divided concrete road and 366 miles 3 furlongs long (586.2 Km).

• It links AH1 at No.3 Junction and at Tagondine near Mandalay.

• Yangon-Mandalay Expressway project was started on Oct 2005 and opened to public for Yangon - Naypyitaw portion on 25 March 2009, for Naypyitaw - Sakeinn portion on 29 Dec 2010 and for Sakeinn - Tadaoo - Tagondine on 23 Dec 2011.

• We would like to upgrade this way to get long service life and to be safe for road users.
Advantages of Expressway Project

- Reduced about 50 miles than Yangon-Mandalay Highway road.
- Equitable development may be gained in social, in economy of the natives of Bago Yoma.
- Strategy and communication becomes more efficient.
- To give services in transportation of natural resources within the country abroad.
- To become faster, safer and more convenience.
- To reduce vehicle operation cost.
- To encourage poverty alleviation.
### Geometric Design standards

<table>
<thead>
<tr>
<th>Highway classification</th>
<th>8 lanes highway (divided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design speed (M/hr)</td>
<td>60 (M/hr)</td>
</tr>
<tr>
<td><strong>Width (ft)</strong></td>
<td></td>
</tr>
<tr>
<td>Right of way</td>
<td>300-400 ft</td>
</tr>
<tr>
<td>Lane</td>
<td>12.5 ft</td>
</tr>
<tr>
<td>Shoulder</td>
<td>35 ft</td>
</tr>
<tr>
<td>Median Strip</td>
<td>30 ft</td>
</tr>
<tr>
<td>Min horizontal curve (m)</td>
<td>1200 ft</td>
</tr>
<tr>
<td>Pavement Slope(%)</td>
<td>2</td>
</tr>
<tr>
<td>Shoulder Slope(%)</td>
<td>3</td>
</tr>
<tr>
<td>Type of pavement</td>
<td>Cement concrete</td>
</tr>
<tr>
<td>Max superelevation(%)</td>
<td>6%</td>
</tr>
<tr>
<td>Max Vertical grade(%)</td>
<td>3%</td>
</tr>
</tbody>
</table>
Yangon - Mandalay Express-way
From No.(3)-Junction
To Ta Gon Daing Circle(366/3 Mile)
Yangon-Mandalay Express-way
From Nay Pyi Taw (C-Junction)
To Mandalay (Ta Gon Ding Circle)
ROAD SAFETY FACILITIES ON YANGON – MANDALAY Expressway
Warning and Caution Signs

Think Safety
Today
Be Alive
Tomorrow
BE ALERT ON THE ROAD,
REACH HOME SAFE!
Warning and Caution Signs

DRIVE WITH CARE
MAKES ACCIDENT RARE
Safety First
Speed Next
Warning and Caution Signs

DRIVE CAREFULLY WITHIN SPEED
AND
ARRIVE SAFELY
Warning and Caution Signs

LIFE IS A JOURNEY
COMPLETE IT
Warning and Caution Signs

ALWAYS ALERT
AVERT ACCIDENT
Driver Feedback Sign
<table>
<thead>
<tr>
<th>စီးရီးယား မိုးသော အကျင်းအမှားစု</th>
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**NO PARKING ON PAVEMENT**

**SPEED LIMIT 100 km/h**

**DRIVE SAFELY**
(a) მანქანები მასშტაბით აღჭურვილი ქანდაკები მქონე (ზოგადად) მანქანები აქტიური აღჭურვილი ქანდაკები მქონე ძალიან მდგომი ქანდაკები მქონე მანქანები აქტიური აღჭურვილი ქანდაკები მქონე ძალიან მდგომი ქანდაკები მქონე მანქანები აქტიური აღჭურვილი ქანდაკები მქონე ძალიან მდგომი ქანდაკები მქონე მანქანები აქტიური აღჭურვილი ქანდაკები მქონე ძალიან მდგომი ქანდაკები მქონე მანქანები აქტიური აღჭურვილი ქანდაკები მქოн
Yangon-Mandalay Express-way

Welcome to SEA GAME
NAY PYI TAW Junction Toll Gate
Thank you for Kind Attention